

AMENDMENTS IN THE CLAIMS

Please amend claims 1, 42, 45 and 46 by this amendment as follows:

1 1. (Currently Presented) An image display apparatus correcting false contour, comprising:
2 a light unit emitting white light;
3 ~~a first lens collimating the white light received from said light unit and outputting the~~
4 ~~collimated light to said color switching unit.~~
5 a color switching unit receiving the white light from said first lens, receiving color switch
6 signals, separating the white light into said plurality of colored lights, outputting each one of said
7 plurality of colored lights seriatim in response to said color switch signals;
8 a first lens collimating the lights received from said color switching unit;
9 a first light beam splitter passing a first wave of said plurality of colored lights received and
10 reflecting a second wave of said plurality of colored lights received;
11 a first panel receiving said first wave of said plurality of colored lights, receiving color data
12 and panel control signals and outputting first incident light corresponding to said received color data
13 in accordance with said panel control signals to display said received color data starting from most
14 significant bit to least significant bit; and
15 a second panel receiving said second wave of said plurality of colored lights, receiving said
16 color data and panel control signals and outputting second incident light corresponding to said
17 received color data in accordance with said panel control signals to display said received color data
18 starting from least significant bit to most significant bit.

1 2.(Previously Presented) The apparatus of claim 1, further comprising:

2 a second light beam splitter receiving said first and second incident light from said first and
3 second panels respectively, passing said second wave of said second incident light outputted by said
4 second panel, reflecting said first wave of said first incident light outputted by said first panel; and
5 a screen receiving said second wave of light passed by said second light beam splitter and
6 said first wave of light reflected by said second light beam splitter.

1 3.(Canceled)

1 4.(Original) The apparatus of claim 2, said color data and panel control signals received
2 by said first panel corresponding to first color data and first panel control signals, said color data and
3 panel control signals received by said second panel corresponding to second color data and second
4 panel control signals distinguishable from said first color data and first panel control signals.

1 5.(Original) The apparatus of claim 2, further comprising a control unit receiving color
2 signals and synchronization signals, outputting said color switch signals in accordance with said
3 synchronization signals, outputting said color data corresponding to said received color signals,
4 outputting said panel control signals.

1 6.(Original) The apparatus of claim 5, said control unit controlling offset, contrast, and

2 brightness of the received color signals.

1 7.(Original) The apparatus of claim 5, said control unit performing signal processing on
2 the received color signals including gamma correction.

1 8.(Original) The apparatus of claim 5, said control unit further comprising:
2 a signal processing unit receiving said color signals, outputting said color data and said panel
3 control signals; and
4 a timing control unit receiving said synchronization signals, outputting said color switch
5 signals.

1 9.(Original) The apparatus of claim 8, said synchronization signals corresponding to
2 horizontal and vertical synchronization signals.

1 10.(Previously Presented) The apparatus of claim 2, further comprising:
2 a first mirror reflecting said first wave received from said first light beam splitter, said first
3 panel receiving said first wave reflected by said first mirror; and
4 a second mirror reflecting said second wave received from said first light beam splitter, said
5 second panel receiving said second wave reflected by said second mirror.

1 11.(Original) The apparatus of claim 2, said color switching unit outputting each one of said

2 plurality of colored lights seriatim at intervals of $1/3$ of a period in accordance with said color switch
3 signals.

1 12.(Original) The apparatus of claim 11, said plurality of colored lights output from said
2 color switching unit corresponding to red light, green light, and blue light.

1 13.(Original) The apparatus of claim 2, said color switching unit outputting a first colored
2 light of said plurality of colored lights while blocking all other colored lights of said plurality of
3 colored lights.

1 14.(Original) The apparatus of claim 2, said color data output from said control unit
2 corresponding to first color data output to said first panel and second color data output to said second
3 panel, said first and second color data being distinguishable from each other.

1 15.(Original) The apparatus of claim 2, said panel control signals output from said control
2 unit corresponding to first panel control signals output to said first panel and second panel control
3 signals output to said second panel, said first and second panel control signals being distinguishable
4 from each other.

1 16.(Original) The apparatus of claim 2, said first and second panels corresponding to liquid
2 crystal display panels.

1 17.(Original) The apparatus of claim 2, said color switching unit corresponding to one
2 selected from among a liquid crystal display shutter and a color wheel.

1 18.(Previously Presented) An image display apparatus, comprising:
2 a control unit receiving color signals and synchronization signals, outputting color switch
3 signals in accordance with said synchronization signals, outputting color data corresponding to said
4 received color signals, outputting panel control signals;
5 a light unit emitting white light;
6 a color switching unit receiving the white light from said light unit, receiving said color
7 switch signals from said control unit, separating the white light into a plurality of colored lights,
8 outputting each one of said plurality of colored lights seriatim in response to said color switch
9 signals;
10 a first panel receiving P wave components of said plurality of colored lights outputted from
11 said color switching unit, receiving said color data and panel control signals outputted by said control
12 unit, outputting first incident light corresponding to said received color data applied by said control
13 unit to data lines of each cell formed as a matrix in accordance with said panel control signals to
14 display said received color data each of which starts from most significant bit to least significant bit;
15 and
16 a second panel receiving S wave components of said plurality of colored lights outputted
17 from said color switching unit, receiving said color data and panel control signals outputted by said

18 control unit, outputting second incident light corresponding to said received color data applied by
19 said control unit to data lines of each cell formed as a matrix in accordance with said panel control
20 signals to display said received color data each of which starts from least significant bit to most
21 significant bit.

1 19.(Previously Presented) The apparatus of claim 18, further comprising:

2 a first lens collimating the white light received from said light unit, outputting the collimated
3 white light to said color switching unit;

4 a first light beam splitter passing said P wave components, reflecting said S wave
5 components;

6 a second light beam splitter receiving said first and second incident light from said first and
7 second panels respectively, passing said S wave components of said second incident light outputted
8 by said second panel, reflecting said P wave components of said first incident light outputted by said
9 first panel; and

10 a screen receiving and displaying light received from said second light beam splitter.

1 20.(Original) The apparatus of claim 19, said color switching unit outputting each one of
2 said plurality of colored lights seriatim at intervals of $1/3$ of a period in accordance with said color
3 switch signals.

1 21.(Original) The apparatus of claim 19, said plurality of colored lights output from said

2 color switching unit comprising red light, green light, and blue light.

1 22.(Original) The apparatus of claim 21, said color switching unit outputting one of said
2 plurality of colored lights while blocking the others of said plurality of colored lights.

1 23.(Original) The apparatus of claim 19, said color switching unit outputting a first colored
2 light of said plurality of colored lights while blocking all other colored lights of said plurality of
3 colored lights.

1 24.(Original) The apparatus of claim 19, said color data output from said control unit
2 corresponding to first color data output to said first panel and second color data output to said second
3 panel, said first and second color data being distinguishable from each other.

1 25.(Original) The apparatus of claim 24, said panel control signals output from said control
2 unit corresponding to first panel control signals output to said first panel and second panel control
3 signals output to said second panel, said first and second panel control signals being distinguishable
4 from each other.

1 26.(Original) The apparatus of claim 19, said panel control signals output from said control
2 unit corresponding to first panel control signals output to said first panel and second panel control
3 signals output to said second panel.

1 27.(Original) The apparatus of claim 19, said first and second panels corresponding to liquid
2 crystal display panels.

1 28.(Original) The apparatus of claim 19, said color switching unit corresponding to one
2 selected from among a liquid crystal display shutter and a color wheel.

1 29.(Previously Presented) An image display apparatus, comprising:
2 a light unit emitting light;
3 a color switching unit receiving the light from said light unit, receiving color switch signals,
4 separating the light into a plurality of colored lights, outputting each one of said plurality of colored
5 lights seriatim in response to said color switch signals;
6 a light beam splitter passing a first wave of said plurality of colored lights received from said
7 color switching unit, reflecting a second wave of said plurality of colored lights received from said
8 color switching unit;
9 a first panel receiving said first wave of said plurality of colored lights, receiving color data
10 and panel control signals, reflecting first incident light corresponding to said received color data
11 applied to data lines of each cell formed as a matrix in accordance with said panel control signals
12 to display said received color data each of which starts from most significant bit to least significant
13 bit;
14 a second panel receiving said second wave of said plurality of colored lights, receiving said

15 color data and panel control signals, reflecting second incident light corresponding to said received
16 color data applied to data lines of each cell formed as a matrix in accordance with said panel control
17 signals to display said received color data each of which starts from least significant bit to most
18 significant bit;

19 said light beam splitter receiving first and second reflected incident light from said first and
20 second panels respectively, passing said first wave of said second incident light reflected by said
21 second panel, reflecting said second wave of said first incident light reflected by said first panel; and
22 a screen receiving said first wave of light passed by said light beam splitter and said second
23 wave of light reflected by said light beam splitter.

1 30.(Original) The apparatus of claim 29, said color switching unit outputting each one of
2 said plurality of colored lights seriatim in accordance with said color switch signals.

1 31.(Original) The apparatus of claim 29, said plurality of colored lights output from said
2 color switching unit corresponding to red light, green light, and blue light.

1 32.(Original) The apparatus of claim 29, said color switching unit outputting a first colored
2 light of said plurality of colored lights while blocking all other colored lights of said plurality of
3 colored lights.

1 33.(Original) The apparatus of claim 29, said first and second panels corresponding to

reflective ferroelectric liquid crystal panels.

34.(Original) The apparatus of claim 29, said color switching unit corresponding to one selected from among a color wheel and an electric shutter.

35.(Previously Presented) A method of displaying an image on an image display apparatus, comprising:

emitting light from a light unit;

receiving the light from said light unit and receiving color switch signals, separating the received light into a plurality of colored lights and outputting each one of said plurality of colored lights seriatim in accordance with said color switch signals, said separating being performed by a color switch unit;

passing a first wave of said plurality of colored lights outputted from said color switching unit and reflecting a second wave of said plurality of colored lights outputted from said color switching unit;

receiving said first wave of said plurality of colored lights, receiving first color data and first panel control signals, transmitting first incident light corresponding to said received first color data in accordance with said first panel control signals to display said received first color data each of which starts from most significant bit to least significant bit, said receiving of said first wave being performed by a first panel;

receiving said second wave of said plurality of colored lights, receiving second color data and

17 second panel control signals, transmitting second incident light corresponding to said received
18 second color data in accordance with said second panel control signals to display said received
19 second color data each of which starts from least significant bit to most significant bit, said receiving
20 of said second wave being performed by a second panel;

21 receiving first and second incident light from said first and second panels respectively,
22 passing said second wave of said second incident light transmitted by said second panel, reflecting
23 said first wave of said first incident light transmitted by said first panel; and

24 receiving and displaying on a screen said second wave of said second incident light
25 transmitted and said first wave of said first incident light reflected.

1 36.(Original) The method of claim 35, further comprising collimating the light received
2 from said light unit and outputting the collimated light to said color switching unit.

1 37.(Original) The method of claim 35, said color switching unit outputting each one of said
2 plurality of colored lights seriatim in accordance with said color switch signals.

1 38.(Original) The method of claim 37, said plurality of colored lights output from said color
2 switching unit corresponding to red light, green light, and blue light.

1 39.(Original) The method of claim 35, said color switching unit outputting a first colored
2 light of said plurality of colored lights while blocking all other colored lights of said plurality of

3 colored lights.

1 40.(Original) The method of claim 39, said first and second panels being selected from
2 among transmissive and reflective liquid crystal display panels.

1 41.(Original) The method of claim 40, said color switching unit corresponding to one
2 selected from among a liquid crystal display shutter and a color wheel.

1 42.(Currently Amended) A false contour correction apparatus in an image display system
2 driven in a digital system, the apparatus comprising:

3 a controller receiving a plurality of colored signals, performing a predetermined signal
4 processing, and outputting color data in accordance with said signal processing; and

5 an optical unit, comprising: ~~receiving said outputted color data, outputting image data~~
6 ~~corresponding to said outputted color data to a screen via a first light path by displaying data in a~~
7 ~~sequence from most significant bit to least significant bit and via a second light path by displaying~~
8 ~~data in a sequence from least significant bit to most significant bit~~

9 an optical source generating and irradiating light;

10 a collimating lens collimating light irradiated from said optical source;

11 a color switching unit receiving the light from said collimating lens and
12 sequentially outputting optical signals;

13 a first polarized beam splitter splitting said outputted optical signals received

14 from said color switching unit according to a polarization of said outputted optical
15 signals, conveying P wave components of said outputted optical signals along said
16 first light path, conveying S wave components of said outputted optical signals along
17 said second light path;

18 said first display being installed along said first light path, arranging bits so that said
19 outputted color data are displayed in order from most significant bit to least significant bit;

20 said second display being installed along said second light path, arranging bits so that
21 said outputted color data are displayed in order from least significant bit to most significant
22 bit; and

23 a second polarized beam splitter splitting light received from said first and second
24 displays according to a polarization of the light received from said first and second displays.

1 43.(Original) The apparatus of claim 42, said optical unit further comprising:
2 a first digital display panel receiving said outputted color data from said controller and panel
3 control signals for driving said first digital display panel in accordance with first synchronization
4 signals, said first display being located along said first light path; and
5 a second digital display panel receiving said panel control signals and said outputted color
6 data from said controller for driving said second digital display panel in accordance with second
7 synchronization signals, said second display being located along said second light path, said first and
8 second light paths being separately located.

44.(Canceled)

45.(Currently Amended) The apparatus of ~~claim 44~~ claim 42, said sequentially outputted optical signals outputted from said color switching unit corresponding to red signals, green signals, and blue signals.

46.(Currently Amended) The apparatus of ~~claim 44~~ claim 42, said first and second displays being selected from among ferroelectric liquid crystal panels and liquid crystal display panels.

Claims 47-49. (Canceled)